

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 30, 1996
Date Received: January 25, 1996
Project: Self Monitor, PO #M71436
Date Samples Extracted: January 26, 1996
Date Extracts Analyzed: January 26, 1996

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, AND ZINC
USING METHOD 6010**

Samples Processed Using Method 3005
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M71436	0.47	0.53	0.34	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
 FOR CHROMIUM, COPPER, NICKEL, AND ZINC
 Samples Processed Using Method 3005**

Laboratory Code: KE66178DP

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.47	0.49	4	0-20
Copper	mg/L (ppm)	0.53	0.52	2	0-20
Nickel	mg/L (ppm)	0.34	0.36	6	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: KE66178MS/MSD

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	0.47	94	95	80-120	1
Copper	mg/L (ppm)	5	0.53	90	89	80-120	1
Nickel	mg/L (ppm)	10	0.34	95	96	80-120	1
Zinc	mg/L (ppm)	5	<0.05	98	99	80-120	1

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	5	105	80-120
Copper	mg/L (ppm)	5	106	80-120
Nickel	mg/L (ppm)	10	104	80-120
Zinc	mg/L (ppm)	5	106	80-120

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

January 30, 1996

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on January 25, 1996 from your Self Monitor, PO #M71436 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

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Enclosures
FAX: 382-7335
ACU0130R.DOC

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January 30, 1996

INVOICE # 96ACU0130-1
DUPLICATE COPY

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Self Monitor, PO #M71436: Results of testing requested by Gerry Thompson, Project Manager for material submitted on January 25, 1996.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00